

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2005/000401

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G01N 15/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G01N 15/02, G01N 1/00, H01L 21/66,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patent and Applications for Inventions since 1975

Korean Utility Models and Applications for Utility Models since 1975

Japanese Utility Models and Application for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS, WPI, USPTO, PAJ, CAPLUS(STN), INSPECT "semiconductor, particle, measure, size, apparatus, counter, differential, mobility, analyzer, electrode, guide, duct, conduit, etc."

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05922976 A (Russell et al., US) 13 Jul 1999 - see columns 1-5 and Fig. 3 & 7 - no patent family	1-9
A	US 06263744 A (Russell et al., US) 24 Jul 2001 - see columns 1-5 and Fig. 3 & 7 - no patent family	1-9
A	US 06230572 A (Pui et al., US) 15 May 2001 - see abstract and Fig. 1-3 & related descriptions - no patent family	1-9
A	US 05056355 A (Hepher et al., US) 15 Oct 1991 - see the entire document	1-9

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

21 JUNE 2005 (21.06.2005)

Date of mailing of the international search report

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Name and mailing address of the ISA/KR



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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05056355 A	15 Oct 1991	GB 8927355 A0	31 Jan 1990